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FORM PTO-1449 (REV. 2-82)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No. 1102865-0047	Serial No. 09/848,834
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicants: Grimes et al.	
		Filing Date: May 4, 2001	Group: 1644

## UNITED STATES PATENT DOCUMENTS

*Examiner Initial	Document No.	Date	Name	Class	Sub-Class	Filing Date, if Appropriate
AA	5 0 2 3 0 7 7	June, 1991	Gevas, et al.	424	88	
AB	5 4 6 8 4 9 4	Nov, 1995	Gevas, et al.	424	195.11	
AC	5 6 8 8 5 0 6	Nov, 1997	Grimes, et al.	424	184.1	
AD	5 7 5 9 5 5 1	Feb 6, 1998	Ladd et al.	424	198.1	
AE	5 8 4 3 4 4 6	Jan 12, 1998	Ladd et al.	424	184.1	
AF	4 2 0 1 7 7 0	May 6, 1980	Stevens	424	177	
AG	5 8 8 5 9 6 6	Mar., 1999	Meloen et al.	514	13	

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

AH	Kaumaya, Pravin T.P., Susan Kobs-Conrad, Ann M. DiGeorge, and Vernon C. Stevens, "De Novo Engineering of Peptide Immunogenic and Antigenic Determinants as Potential Vaccines" in <u>Peptide: Design, Synthesis, and Biological Activity</u> pp. 133-164. Channa Basava and G.M. Ananthatamaiah (Eds.) Birkhauser, Boston 1994.
AI	Young Hoon Seo, Susan Kobs-Conrad and Pravin T.P. Kaumaya. "Promiscuous T-Cell Epitopes of Tetanus Toxoid and Measles Virus Enhance Immune Responses to B-Cell Epitopes of the Prokin antigen LDH-C <sub>4</sub> " in <u>Peptides</u> pp. 866-867. 1992 C.H. Schneider and A.N. Eberle (Eds.) 1993 ESCOM Science Publishe BV.
AJ	Pravin T.P.Kaumaya, Susan Kobs-Conrad, Young Hoon-Seo and Ann Marie DiGeorge "Template Vaccine Strategy Bypasses Hapto Type- Restricted Immune Responses" in <u>Peptide 1992</u> pp. 139-141. C.H. Schneider and A.N. Eberle (Eds.) 1993 ESCOM Science Publisher BV.

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	BF	5	4	0	3	5	8	6	Apr. 4, 1995	Russell-Jones	424	192.1
	BG	5	2	0	4	1	0	8	Apr. 20, 1993	Illum	424	434

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BH	Susan F. Kobs-Conrad, Ann Marie DiGeorge, Hyosil Lee and Pravin T.P. Kaumaya "Folding and Immunogenicity of a Loop-Structured Peptide Using the Zinc-Finger Motif" in <u>Peptides</u> 1992 C.H. Schneider And A.N. Eberle (Eds.) 1993 <u>ESCOM Science</u> Publisher BV.
BI	Pravin T.P. Kaumaya, Susan Kobs-Conard, Young Hoon-Lee, Hyosil Lee, Anne M. Van Buskirk, Ningguo Feug, John F. Sheridan and Vernon Stevens "Peptide Vaccines Incorporating a 'Promiscuous' T-Cell Epitope Bypass Certain Haplotype Restricted Immune Responses and Provide Broad Spectrum Immunogenicity". <u>Journal of Molecular Recognition</u> , Vol. 6, 81-91 (1993).
BJ	Susan Kobs-Conrad, Hyosil Lee, Ann M. DiGeorge, and Pravin T.P. Kaumaya "Engineered Topographic Determinants with $\alpha\beta$ , $\beta\beta$ , and $\beta\alpha\beta\alpha$ Topologies Show High Affinity Binding to Native Protein Antigen (Lactate dehydrogenase-C <sub>4</sub> )" (1993) <u>The Journal of Biological Chemistry</u> 268(34): 25285-25295.

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CC	4	6	0	8	2	5	1	Aug. 26, 1986	Mia	424	85	
CD	5	1	0	9	0	2	6	Apr. 28, 1992	Hoskinson	514	777	
CE	4	6	1	8	5	9	8	Oct. 21, 1986	Conn	514	6	

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CF	Pravin T.P. Kaumaya, Anne M. Vau Buskirk, Eruin Goldberg, and Susan U. Piece "Design and Immunological Properties of Topographic Immunogenic Determinants of a Protein Antigen (LDH-C <sub>4</sub> ) as Vaccines". (1992) <u>Journal of Biological Chemistry</u> 267(9): 6338-6346.
CG	Susan F. Conrad, In-Ja L. Byeon, Ann M. DiGeorge, Michael D. Lairmore, Ming-Daw Tsai and Pravin T.P. Kaumay. "Immunogenicity and Conformational Properties of an N-Linked Glycosylated Peptide Epitope of Human T-Lymphotropic Virus Type 1 (HTLV-I). <u>Biomedical Peptides, Proteins &amp; Nucleic Acids</u> , Vol. 1, 83-92 (1995).
CH	Pierre L. Triozzi, Gary D. Stoner and Pravin T.P. Kaumaya "Subunit Peptide Cancer Vaccines Targeting Activating Mutations of the p21 Ras Proto-Oncogene". <u>Biomedical Peptides, Proteins &amp; Nucleic Acids</u> , Vol. 1, 185-192 (1995).

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DB	5 8 1 7 7 5 3	Oct. 1998	Stevens	530	324	
DC	5 4 2 2 1 1 0	6/1995	Potter et al.	424	255.1	
DD	5 6 3 3 2 4 8	May 97	Kato et al	514	212	
DE	5 6 4 8 3 4 0	July 97	Barnea	514	21	
DF	5 8 3 7 2 6 8	11/98	Potter et al.	424	255.1	
DG	5 6 8 4 1 4 5	Nov. 97	Vander Zee	536	23.51	
DH	5 7 2 3 1 2 9	March 98	Potter et al	424	200.1	

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DI	Michael D. Lairmore, Renu B. Lal, and Pravin T.P. Kaumaya. "Evaluation of Immunodominant Epitopes of Human T-Lymphotropic Virus Type 1 (HTLV-I) Using Synthetic Peptides. <u>Biomedical Peptides, Proteins &amp; Nucleic Acids</u> , Vol. 1, 117-122 (1995).
DJ	Michael D. Lairmore, Ann M. DiGeorge, Susan F. Conrad, Ales V. Trevino, Renu B. Lal, and Pravin T.P. Kaumaya. "Human T-lymphotropic virus type 1 peptides in chimeric and multivalent constructs with promiscuous T-Cell epitopes enhance immunogenicity and overcome genetic restriction". <u>Journal of Virology</u> . Oct. 1995, pp. 6077-6089.
DK	Thomas P. Hopp and Kenneth R. Woods. "Prediction of Protein Antigenic Determinants from Amino Acid Sequences". <u>Proc. Natl. Acad. Sci. USA</u> 78 (1981).

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EA	5 7 0 8 1 5 5	1/1998	Potter	536	23.4	

## FOREIGN PATENT DOCUMENTS

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EB	9 0 0 2 1 8 7	March 1990	WIPO			

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EC	Gjalt W. Welling, Wicher J. Weijer, Ruurd van der Zee and Sytske Welling Wester. "Prediction of Sequential Antigenic Regions in Proteins". <u>FEBS</u> Vol. 188(2), p. 215-219; Sept. 1985
ED	Jack Kyte and Russell F. Doolittle. "A simple method for displaying the hydropathic character of a protein". <u>J. Mol. Biol.</u> (1982) 157, 105-132.
EE	J.M. Thornton, M.S. Edwards, W.R. Taylor and D.J. Barlow. "Location of 'Continuous' Antigenic determinants in the protruding regions of proteins" (1986); pp. 409-411.
EF	P.A. Karplus and G.E. Schulz. "Prediction of chain flexibility in proteins". <u>Naturwissenschaften</u> 72(1985) 212-213.
EG	George D. Rose, Ari R. Geselowitz, Glenn J. Lesser, Richard H. Lee, Micheal H. Zehfus. "Hydrophobicity of amino acid residues in globular proteins". <u>Science</u> 229: 834-838.
EH	Peter Y. Chou and Gerald D. Fasman. "Prediction of the secondary structure of proteins from their amino acid Sequence" Pages 45-141.

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FA	6 0 2 5 4 6 8	2/2000	Wang	530	324	
FB	4 7 8 0 3 1 2	10/1988	Talwar	424	88	

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*Examiner Initial	Document No.	Date of Publication	Country	Class	Sub-Class	Translation Yes No
FC	9 7 1 5 3 2 5	5/1997	WO			
FD	0 5 7 8 2 9 3	1/1994	EP			

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

FE	Pravin T.P. Kaumaya. "Synthetic Peptide Vaccines: Dream or Reality?" <u>Peptides in Immunology</u> . C.H. Schneider, Ed. 1996. John Wiley & Sons, Ltd. p.117-148.
FF	Pravin T.P. Kaumaya, Susan Kobs-Conrd, and Ann M. DiGeorge. "Synthetic Peptide Vaccines: Misconceptions and Problems, Strategies and Prospects". Chapter 42 in pp. 279-292.
FG	Lori A. Smolenski, Pravin Kaumaya, M. Zouhair Atassi and Susan K. Pierce. "Characteristics of Peptides Which Compete for Presented Antigen-Binding Sites on Antigen-Presenting Cells". <u>Eur. J. Immunol.</u> 1990. 20: 953-960.
FH	Lisa A. Casten, Pravin Kaumaya, and Susan K. Pierce. "Enhanced T-Cell Responses to Antigenic Peptides Targeted to B-Cell Surface Ig, Ia, or Class I Molecules". <u>J. Exp. Med.</u> Vol. 168 (1988), 171-180.
FI	A. Ladd Review: Progress in the development of anti-LHRH vaccine. <u>American J. Reproductive Immunology</u> 29 (1993) 189-194.

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GA	6 2 2 8 9 8 7	5/2001	Wang	530	324	
GB	5 4 8 4 5 9 2	1/1996	Meloen et al.	424	185.1	

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GB	9 1 0 2 7 9 9	3/1991	WO			
GC	9 4 2 5 0 6 0	11/1994	WO			
GD	2 2 2 8 2 6 2	1/1990	GB			
GE	9 0 0 2 1 8 7	3/1990	WO			
GF	9 2 1 9 7 4 6	11/1992	WO			

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GF	S. Sad et al. "Synthetic gonadotrophin-releasing hormone (GnRH) vaccines incorporating GnRH and synthetic T-helper epitopes." 1993 <u>Vaccine</u> 11: 1145-1149.
GG	S. Ghosh and D.C. Jackson "Antigenic and immunogenic properties of totally synthetic peptide-based anti-fertility vaccines" (1999) <u>International Immunology</u> 11 (7) pp. 1103-1110.
GH	S. Sad, K. Rao et al. "Bypass of carrier-induced epitope-specific suppression using a T-helper epitope", <u>Immunology</u> .

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Psk	EB 9 0 0 2 1 8 7	March 1990	WIPO			

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Psk	EC	Gjalt W. Welling, Wicher J. Weijer, Ruurd van der Zee and Sytske Welling Wester. "Prediction of Sequential Antigenic Regions in Proteins". <u>FEBS</u> Vol. 188(2), p. 215-219; Sept. 1985
	ED	Jack Kyte and Russell F. Doolittle. "A simple method for displaying the hydropathic character of a protein". <u>J. Mol. Biol.</u> (1982) 157, 105-132.
	EE	J.M. Thornton, M.S. Edwards, W.R. Taylor and D.J. Barlow. "Location of 'Continuous' Antigenic determinants in the protruding regions of proteins" (1986); pp. 409-411.
	EF	P.A. Karplus and G.E. Schulz. "Prediction of chain flexibility in proteins". <u>Naturwissenschaften</u> 72(1985) 212-213.
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✓	EH	Peter Y. Chou and Gerald D. Fasman. "Prediction of the secondary structure of proteins from their amino acid Sequence" Pages 45-141.

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Date Considered:

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FORM PTO-1449 (REV. 2-82)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No. 1102865-0047	Serial No. 09/848,834
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicants: Grimes et al.	
		Filing Date: May 4, 2001	Group: 1644

## UNITED STATES PATENT DOCUMENTS

*Examiner Initial	Document No.	Date	Name	Class	Sub-Class	Filing Date, if Appropriate
PKH	FA 6 0 2 5 4 6 8	2/2000	Wang	530	324	
↓	FB 4 7 8 0 3 1 2	10/1988	Talwar	424	88	

## FOREIGN PATENT DOCUMENTS

*Examiner Initial	Document No.	Date of Publication	Country	Class	Sub-Class	Translation Yes No
PKH	FC 9 7 1 5 3 2 5	5/1997	WO			
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## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

PKH	FE	Pravin T.P. Kaumaya. "Synthetic Peptide Vaccines: Dream or Reality?" <u>Peptides in Immunology</u> . C.H. Schneider, Ed. 1996. John Wiley & Sons, Ltd. p.117-148.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicants: Grimes et al.	
		Filing Date: May 4, 2001	Group: 1644

## UNITED STATES PATENT DOCUMENTS

*Examiner Initial	Document No.	Date	Name	Class	Sub-Class	Filing Date, if Appropriate
Psk	GA 6 2 2 8 9 8 7	5/2001	Wang	530	324	
↓	GB 5 4 8 4 5 9 2	1/1996	Meloen et al.	424	185.1	

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*Examiner Initial	Document No.	Date of Publication	Country	Class	Sub-Class	Translation Yes	No
Psk	GB 9 1 0 2 7 9 9	3/1991	WO				
↓	GC 9 4 2 5 0 6 0	11/1994	WO				
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↓	GE 9 0 0 2 1 8 7	3/1990	WO				
↓	GF 9 2 1 9 7 4 6	11/1992	WO				

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

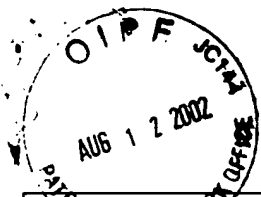
Psk	GF	S. Sad et al. "Synthetic gonadotrophin-releasing hormone (GnRH) vaccines incorporating GnRH and synthetic T-helper epitopes." 1993 <u>Vaccine</u> 11: 1145-1149.
↓	GG	S. Ghosh and D.C. Jackson "Antigenic and immunogenic properties of totally synthetic peptide-based anti-fertility vaccines" (1999) <u>International Immunology</u> 11 (7) pp. 1103-1110.
↓	GH	S. Sad, K. Rao et al. "Bypass of carrier-induced epitope-specific suppression using a T-helper epitope", <u>Immunology</u> .

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicants: Grimes et al.	
		Filing Date: May 4, 2001	Group: 1644

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*Examiner Initial	Document No.	Date of Publication	Country	Class	Sub-Class	Translation Yes No
PJK	9 9 6 6 9 5 2	29 Dec. 1999	WO			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)


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